STORM DATA



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NATIONAL CLIMATIC CENTER

OCTOBER 1977 ESTIMATED!
DAMAGE NO. OF PERSONS ESTIMATED! DAMAGE TIME - LOCAL STANDARD TIME - LOCAL STANDARD WIDTH OF PAT (YARDS) WIDTH OF PAT (YARDS) CHARACTER CHARACTER LENGTH OF F ES) PI ACE PL ACE PROPERTY PROPERTY LENGTH (STORM STORM KILLED KILLED DATE CROPS CROPS ALABAMA ARIZONA (continued) Townential rains from tropical storm Heather over a four day period brought severe floading and devastation to southern Arizona along the Santa Cruz and Sam Pedro Rivers. The greatest destruction was along the Santh Cruz between Nogales and Marana. Heather was born in the eastern Pacific well south of the southern tip of Baja on Ottober 3-4. For the next two days the tropical storm moved northwest, parallel and west of Baja. It then curved to the east, spreading rain into Arizona. On the 7th, it was breaking up and difficult to pinpoint, but heavy rains continued through the evening of the 9th. Rainfall amounts for the four day period across extreme southern Arizona and extreme northern Mexico were mostly between 4 and 12 inches. Nogales measured 8.30, Bisbee 5.75 and Fort Huschuca 5.50 inches. At Pena Blana, about twelve miles morthwest of Nogales, 12 to 14 inches were noted. At a number of locations, the total amounts exceeded everage annual values. Wrile some flash flooding occurred on the Santa Cruz and its tributaries, mainly around Tucson, on the Santa Cruz and its tributaries, mainly around Tucson, on the Santa Cruz and sits tributaries, mainly around Tucson, on the Santa Cruz and spread northward during the shear and spread northward during the 9th near the Mexican border and spread northward during the fafternoon and evening and continued on the 1bth and 11th. Peak discharge occurred on the Santa Cruz between Nogales and Continuental, reaching the so-called "110-year flood level" of 30-40,000 cubic feet per second. The governor's office estimated the total damage from the heavy rains at \$13,400,000. The major item was \$8,800,000 to farms, which included \$5,700,000 to load and \$2,300,000 to coads and streads. There were no injuries or deaths, but 400 persons were driver from their homes. Santa Cruz, Pima, Pinal and Cochise Counties 0 0 7 6 Flooding Jefferson County 0 0 0 9.55p 0 Heavy Rain Portions of Jefferson County recorded nearly four inches of rain during the day. Some minor flooding occurred in the Ensley area and in downtown Birmingham. Ensley is located five miles west of downtown Birmingham. Alabama 0 0 0 Record cold Huntsville, Birmingham and Mobile all w 1c temperature records. Temperatures were generally in the 30s statewide, but several north Alabama Cooperative Stations had readings in the upper 20s. Coldest temperature was 28 degrees at Winfield on the morning of the 14th. Winfield is located 45 miles north of Baldwin County 25 7.00a 15 100 0 Ð A tornado skipped across the southern part of Balakin County from near Foley to Robertsdale, and ending near Loxley. Several homes near Robertsdale had minor damage and one mobile nome was overturned. State troopers followed the intermittent tornado as it toved north. Robertsdale is located 25 miles of Mobile Mobile County 0 2 0 0 Waterspout/wind A waterspout passed directly over the Dauphin Island Sea Lab which is located on the east end of the island. Peak wind was 50 mph and minor damage occurred. Dauphin Island is 30 mdles south of Modile. ALASKA ARKANSAS Gulf of Alaska 1 0 5 Wind and high seas 14-Near Jessieville -23 8:10 n. 0 A powerful storm moved northeas ward into the Gulf of Alaska on Oct. 14, Storm forte southeast winds over the North Gulf Coast and Southeast Alaska on Oct. 14 veered to south/southwest and slowly decreased on Oct. 15. The 42-fpot fishing vessel "Narmot Cape" was torn from anchor and destroyed in the surf at Astrolabe Bay, about 70 miles west of Juneau, anily on Oct. 15. Maves of 30 feet were reported in the area at the time. One crew member was lost. Garland County the county ced one-inch heil. Just West of Hot 8:10 p. 0 0 Hail Springs -Garland County Heavy thunderstorms moving norther produced three-quarter inch hail. Gulf of Alaska Another North Pacific storm moved northeastward into the Gulf of Alaska on Oct. 16. Storm force winds were common over most of the Gulf of Alaska oct. 16-17. An arctic front moved southeastward across the Kenai Peninsula Storm force northwesterly winds behind the arctic front developed over Kodlak Island and the southern Kenai Peninsula waters Oct. 17. The 70-foot fishing vessel "Seafater" was sunk about 5 miles east of Chugach Island, just off the southern tip of the Kenai Peninsula, on the evening of Oct. 17. Winds of 80 knots and 20 foot seas were reported in the area. The crew was rescued. CALIFORNIA NORTHERN & CENTRAL NONE REPORTED CALIFORNIA 0 0 NONE REPORTED Southern Kenai Heavy rain and mudslide SOUTHERN Strong southeast flow off the Gulf of Alaska Oct. 20-22 caused moderate to heavy precipitation over the sbuthern Kenai Peninsula. Sevard had 2 1/2 inches of rain Oct. 20-22. On Oct. 22, a mudslide blocked the road at mile 91 on the Seward Highway. NONE REPORTED COLORADO 0 0 5 Aleutian Islands Strong wind and CONNECTICUT west Pacific - on the evening of Oct. 23. The low moved rapidly northeastward toward the Aleutian chain and strengthened explosively. The center moved north of the central Aleutians on Oct. 25, causing peak winds of 95 knots from the west at Adak around noon. The center then turned southeastward and crossed the eastern Aleutians on the evening of Oct. 25. The ship "Vigilant", near Dutch Harbor, reported a pressure of 27.35 inches (92d.1 milliburs) at 6PM Oct. 25 - a new Alaska all-time record low pressure reading. Several buildings were blown from their foundations at Atka Island. Some building materials were lost and some wind damage occurred at King Cove, on the southern Alaska Peninsula. Some barges were temporarily beached on the north side of the Alaska Peninsula near Port Hidden. Southwest Afternoon Wind. hail Gusts to 40 knots blew down m some windows. Small hail als Ansonia 0 0 5 Lightning Lightning struck a utility pole and passed electrical charges into several shops and set a fire. Central 0 0 0 5 Rain Excessive monthly rainfall flooded potatoe fields delaying harvest and causing pater rot in potatoes. ARIZONA 7:00 p. Buckeye, Maricopa County 0 0 5 5 Wind, Hail derstorm with winds estimated over 60 m.g. 69,000 wolt transmission line, uprooted c, ripped off roofs and damaged mobile home on fields were flattened by wind and hail 60 m n h downed

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DELAWARE										INDIANA	l	Ī			1		l	İ	,
Sussex County	14	All Day					5	0	Coastal Storm,	West Central	1	Early Morning			0	0	?	6	Rains
					ļ.,				High Tides		Ve	ny heavy r	ains d	eluged	Veste	rn a	nd Cen	tral	
	tide	of the ye	ar, ne	arly 3.	feet	above	norm	1. Th	e second highest s, combined with flooding at Lewes,	-	In	diana late	Frida tween	night B to 6	and	earl:	y Satu rain	rday fell	
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	port	on of the	damag	e figur	rte.Ho	weve	, sep	ic sy:	tems were exposed to bulkheads and		of	Il in the Crawfords	Sugar Ville.	These	rain	in t	he vic	inity	
	dest	ruction of	some	fences.		1					Te	e flooding rre Haute. e crop dam	The	Corps o	f Eng	inee	ngton ns est	imated	
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FLORIDA		5.00 04									te	chnically d was repo	becurr	ed on F	riday	, Se	f tembe	31,	
Monroe County	2 A wat	EST	e ren	orted 3	0	0	O t of k	-	Materspout t drifting slowly	Centerville	1	5:00 AM	1	50	0	1	5	7	Tornado
	south	westward.	as rep	Di Leu	1111111			ey wes	L drifting slowly	Wayne County	A	small torn	ado mo	ving or	a so	uthe	astwar	9	
Pade County	6	4:30 PM EST	ĺ		0	0	0	0	Waterspouts		ne	rack crashe ear Centerv o houses w	ille i	h the e	arly	morn	ing ho	urs.	
		ral water: d without				ed ne	ar Mia	mi Bea	ch and all dissi-		ho	uses on ei	ther s	de wer	re dan	aged	consi	er- and	
Hillsborough County	12	3:06 PM			0	0	0	٥	Waterspouts.		sc	me roofs w	ere da	maged.	One	wora	n was		
		EST waterspout lown.	ts wer	e repor	ed b	у а р	ilot o	ver Ta	mpa Bay, movement	Near Corydon,	1			40	1	1	4	0	Tornado
Dade County	12	3:30 PM				0	0	٥	Funnel aloft.	Harrison County	A	twister st	ruck a	mobile	home	eig	ht mil	es	
: · · · · · · · · · · · · · · · · · · ·		EST	d alof	was r	eport	1			of Homestead.		he	me was blo	wn apa	rt and	scatt	dered	for	1	
Escambia County	25	7:25 AM		20	0		2	0	Tornado		20 t.i	000 yards. 00 feet fro nat morning	n the	foundat	ion a	nd d	led la	ter	
	A sm	all tornac	do tou	thed do	wn br	efly	near	the ea	st fence of		ir	njuries. S	everal	trees	were	knoc	ked do	wn	
	dama	ge were re	porte	d. Dam	age w	as co	hfined	to ab	significant out 100 feet of s down in the	-							ŀ	}	
	vici	nity of Sa	aufley	Field.	The	torn	ado, a	ssocia	ted with one of oward the northeast	IOWA									
	at 2	5 mph.								1 W Anthon Woodbury County	30 A m:	9:30 A an was kill	ed and	two c	1 mpan	2 ons	0 Injure	0 wh11	Lightning walking thro
Escambia County	25	CST		L	0	0	0	0	Waterspout.		WOO	ded area.	These	men we	de hur	ting	3		
Okaloosa County		terspout v	1	portea -	over 0	rensa 0	рогав	ву.	Tornado	KANSAS									
,		CST	!				-	_	thunderstorms in	Coffey, Franklin and	31	11:15 p			0	0	5	5	Wind, hail, r
	the Ft.	area, was Walton Bea	repor	ed by	¢kalo	osa C	ounty	tivil	Defense west of or injuries were	Osage Counties							`		
	repo	rted.						ļ			Cour	thunders	torms he Osa	moved : ge-Fra	orth- klin	nort	heast Lies l	rom n	ortheart Coffey usty winds, sma ofrom southeas
Micco, Brevard County	30	10:47 PM EST	1/10	15	٥	0	2	0	Tornado		Dave	atra to usa	r MITT	Lams out	ig. Wi	ind d	amage :	was to	from southeas trees, barns a tensive crop
•	Brev down	Drierly	causin	g minor	dama	ge.	A powe	ir ilne	ll tornado touched and some trees		dem	ige to soyt ipd 2-1/2 m	eans a iles s	nd mild outheas	. 3-1 t of	/2 i Wave	iches	of rai	ifell in a sho
	(were	blown dom njuries w	wn, an	g the r	pors	of tw	o mábi	le hom	es were damaged.		alo.	y with gus Vasser.	ty wir	ds cous	ed da	mage	to re	eresti	onal vehicles
Monroe County	31	3:47 PM EST			0	0	0	0	Waterspout										
	A wa		was re uthwes	ported	5 mi1	es so	uth of	Key W	est drifting slowly	KENTUCKY									
										MARION CY	1 4	10 AM	5 ado da	300	0 home	0	5 many	5 harns	TORNADO
GEORGIA											an st	small torn d sheds in orm moved	an ar From t	ea just he NW t	SW o	f Let	tanon.	The	
Northeast	25 thru				0	0	0	3	Flooding	FAYETTE CY	١,	10 AM	8	400	0	0	5	5	TORNADO
	26										12	tornado da barns as	t mov	ed thru	an a	rea l	∏1 mile	s NE	
		ry rains d	uring	the 25t	n to	26th	caused	about	\$5,000 damage		ca	the airpoused more ops and pro	han o	he-hallf	mill	ion o	ollars	to	
	"	roha.								OWSLEY CY		50 mph.							
HAWAII										OMSLET CT	A A	12:30 PM tornado whi maged 29 b	ch mo	ed thr	Tr	o avele	rs Res	t	TORNADO
4 mi, SW of Wheeler		2:59p-							Funnel cloud		wh	ich caused lion doll	damag	estim	ated	et or	e-half	i	
AFB, Oahu		3:03p								LAUREL CY	fr	om the NW 2:10 PM	o the	SE at	50 mp	h•	ļ ·		TORMARO
IDAHO			NONE	REPOR	IED :						A.	CITO PM CORNADO CAL NEY GROVE	sed e	ktensiv	e dami	16 age t	o the	5	TORNADO
חנואמז			NONE	AEPUR	ובט						in	ith of Lone	on. 10 ba	n total	of I	pec hor	able we	re i	
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ILLINOIS			SEE E	ND OF	 TABI	ļ. ĻE			ļ		I Pat	unnel clou	d whi	h trav	led of	over		ty of	TORNADO
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OCTOBER 1977 ESTIMATED! DAMAGE NO. OF PERSONS NO. OF ESTIMATED! TIME - LOCAL STANDARD TIME - LOCAL STANDARD WIDTH OF PATH (YARDS) WIDTH OF PATH (YARDS) CHARACTER CHARACTER OF LENGTH OF I LENGTH OF I PLACE PLACE PROPERTY PROPERTY STORM INJURED STORM KILLED KILLED INJURED DATE DATE 8000 C. 00. KENTUCKY (continued) MICHIGAN Il Eve

Five inches of rain which fell over the
Cumberland River basin caused flooding over
Cranks Creek, Little Creek, Clover Fork,
Jones Creek, and Yocum Creek. Three homes
were destroyed, six county bridges were
washed out, and creps were destroyed. Sanilac, Huron. Tuscola, Genesee, С HARLAN CY 5 FLOOD Rainfall Numerous rains in late September and the first week in October left water standing in many fields. Heavy machinery was unable to enter fields for harvesting purposes, resulting in water damage to 50 percent of the areas dry bean crop. Saginaw, Bay, and Arenac Co. 1 Morning 5 A severe thunderstorm hit Bloomfield flattening two barns and damaging three ho NELSON CY TSTM MINNESOTA NONE REPORTED LOUISIANA MISSISSIPPI 0 - 0 Caddo Parish 1:30 AM 0 Wind s estimated at 30-40 : ower near Mooringspor 1794 foot te and fall. Woodville, Wilkinson County 5:15 PM 15 50 0 0 3 ? A tormade touched down 10 mi. West of Moodville at about 5 PM near the Fond Road damaging several small outbuildings. The twister movel east, pessing about 2 mi. south of Woodville near "Lighway 61 damaging several sheds and small structures before lifting about one mile north of Mewtonia. Damage \$2,500 25 0 Jackson Parish 3:55 PM A funnel cloud was first spotted about 3:49 PM NW of Hodge. It touched down in Hodge Shopping Center at 3:55 PM damaging a bank, Sood store, elementary school, roofs and power lines. Flora, Madison County The tornado then lifted, but wind damage to tree was reported along highway east of town and to roofs in Weston as the thunderstorm moved south 8:10 PM 0 0 0 0 Funnel Cloud A funnel cloud was reported by the public and verified by the Jackson radar about 2 mi. south of Flora moving east. 0 0 0 3 Northern Parishes 5-7 PM Thunderstorms and wind Several reports of trees and power lines knock down. Minor damage near Chlumbia in Caldwell Parish about 5:05 PM and in Pleasant Hill area of Sabine Parish about 6:20 PM. MISSOURI 21- ps 21- ? ? ? 0 0 ? ? 7

24 sm 24
A stationary front elipped into northern Missouri, and a low developed in eastern fanses. Conditions changed little the entire weekend. Rait begar falling in northeest Missouri late Friday and lingsred in northeast Missouri into Monday As a result of the continuous rain, much flooding covered the northern half of Missouri. The flooding affected mostly rural areas; the rivers and streams rice slowly but relemiteesly. Most damage was to rural homes and crops not yet harvested. North Half MAINE Statewide 1 Ł Daylong 3 Southeaster Rain and high winds buffeted the state. Trees and limbs downed power lines and caused damage to buildings and vehicles. Coastal areas were hand hit. Orchardists were caught in the final stages of picking fruit. Statewide MONTANA REPORTED winds ripped the state and coastal areas. Heavy rains the 17 Daylong Northeaster Statewide NEBRASKA NONE REPORTED winds and heavy rains the damage from rain and wind. hird nd in a row resulted in ONE REPORTED NEVADA MARYLAND & D.C. Coastal Storm, Eastern Shore 14 All Day 0 0 5 0 NEW HAMPSHIRE NONE REPORTED Northeast winds gusting to 40-50 mph and tides running about 3 feet above normal lattered the area, particularly in the Ocean City vicihity. Starm was called the worst in 15 years as sand that had been replaced from an earler starm, was again washed away. Besides seribus beach and dune erousin, a 75-foot section of pier was washed away, while streets were flooded and covered with debris. NEW JERSEY Coastal Areas am-pm storm with winds over 50 mph lashed the New Jersey Coast, using tides over 1 feet above normal. Streets and coastal garage were exacusted major beach sino occured at Sandy Heok and Monmouth Beach. Cumberland Wind winds were believed to be 12x25-foot section of brick the cutward collapse the cause of the wall of building NEW MEXICO MASSACHUSETTS NONE REPORTED Northeast All day 5 0 14 0 0 High wind An intense doastal storm boats from their mooring, saw 5 large yachts blow blew several hundred . Marblehead Harbor NEW YORK COASTAL 20 9-10 AM 14 an-pm
Easterly winds in excess of 35 mph resulted in excessive beach erosion along the south shore of long island. A police car was trapped on the send an washed put to sea. Tided ran 3 to 4 feet above normal, with vaves breaking over the send dunes. Attleboro 0 0 2 0 Lightning (Extreme Southeast) Nassau, Suffolk Co. Lightning struck minor damage. Easton Morning 0 0 Lightning A school aid was struck by lightning as the current passed through the telephone on which she was talking.

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PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NEW YORK CENTRAL AREAWIDE					0.	0	5	7	RAIN	OKLAHOMA			NONE	REPOR'	TED			l	
AREAWIDE	STOR	MS ON THE	1ST, U	AGRICUI	E MOI ; 14'	TH E	CTREME 5TH; A	LY WET ND 19T	WEATHER WITH H; CREATED A EED; CORN; HAY;	OREGON Lincoln County	28	Morning			1	?	5		Coastal flooding from extremely high seas. Damaged beach motels and
	BUT ILIE	MAINLY IN	THE DI	LAWARE HAD TO	AND :	USQU	CHANNA RARILY	RIVER EVACU	WIDESPREAD FLOODING BASINS. MANY FAM- ATED. THE FIRST 16TH.	PACIFIC 3 mi. NW of weather office Kwajalein		3:30p- 3:54p							dock facilities.
NEW YORK WESTERN			NONE	REPOR'	TED					office wasteld	Dark from	gray wat	cumul	ıs clou	(ba	se 1,	500 £1	, and	d straight down estimated tops t.
NORTH CAROL	1 A to	leman and	ched d	own near	to L	inebe	rry so	uth of	Tornado ss southern Climax.	PENNSYLVANIA EASTERN Eastern Penna.	١.,	10 AM t			0	0	6	3	Heavy Snow, Heavy Rain, Electrical, Wind
Stanley County	26	l damage ding dama					5		Flooding		wet had nor amo tho	and unu their f thern ha unts did usands o	sual all fol lf of fall f tre	amount liage Easte over es and	s ac rn P the tre	cumu he s enns sout e li	lated now w ylvan hern mbs w	on t as ma ia al half. ere d	was heavy and rees that still inly over the though some smal Innumerable pwn over the and trees and
NORTH DAKOT 4 Miles SW Ryder (Ward County)	30 A f	9 am iresta es of str					0 troyed	1	Lightning he hundred pound		lim to lin and Ove som	os were the grou es throu automob r 65,000 e being	snapp nd. ghout iles. cust out f	ed off The tr the a omers or sev	or ees rea expe eral	bent and and rien day	over limbs also ced p	, som brou fell ower he nu	e all the way ght down utilit on buildings butages with mber of trees
OHIO Southwest	acco were show	2A-4A rea of thu mpanied by as high a ers produce Columbus	heavy s 4 to ed con	rains 6 inch siderab	and s es du le ur	trong ring ban a	winds a two nd sma	. Rair hour :	Heavy rain, High wind Ohio fall amounts Heriod the Heam flooding Ines and		as plo inc sno in li nie ly	crews have could be a could be a could be a coumu sections inches a detection to the solution	d to get es over latio t Haz bw as	be disthroughthe the has are lioga, well of do	patc h. low ighe 17 Brad Li as s wned	hed Snow er gr inch ford ghtn tron tre	to claculevates and	ear t mulat ions, A f Free Sulli nd th ds wh Thund	ing operations he trees before flons were about but 9 to 17 ew samples of land, 15 inches van Counties, under accompaich added great erstorms, heavy e southern half snow over nort
Carlisle (35 NE CVG)	tree] This Dr.	655A	0.3 mado d uffere	50 id dama d major	O ge be dama	0 tween	5 Linco ile 8	0 11n Ave	Tornado and Roberts		Cur	ryville.	The Man	der co re was v stor	nstr als m-re	ucti o so late	on win me sm daut	all h bmobi	snow over north red in a few reported. The ons, one being lew over at ail reported in le accidents ad Many roads
Green Township (10 NNE CVG)	Sevt home	710A rnado with le Ct. in and dama the west	subur ged 15	ban Cin others	cinna . 9 e	ti. † xtens	he tor	nado d	Tornado lown on lestroyed 12 ornado moved	PENNSYLVANIA	tim	luding s with m	ome i	nterst	ate ts s	high tran	ways ded.	were	ed. Many roads closed for a
Cincinnati (13 NE CVG	A to Redb lot truck a bo may	730A rnado touc knks Rds. ifting up ks. It als vs home. T have come khip torna	The to and r o dama his to from t	rnado t olling ged the rmado a	he in buche over fact Iso m	d dow sever ory, oved	n in a al car a near from k	factors and by chu	ry parking large rch and ESE and	WESTERN Somerset County Cambria County	17 Occases	y morning	hours n. Wi	Snow	accu	mulat	ions t	p to 3	Show, wind ties through the inches were re- ted by the Johns-
Winchester, Adams County	1 A the	810A Inderstorm by and mov by The to	1/2 did d ed ESE	to pro	duce	a sma	11 tor	nado f	n Adams 1		car on t	airport in which he Pennsy hours.	between they w lvania	n 5 and ere rid Turnpi	6 am ing w ke ne	Twent o	o peoput of	le wer contro durin	e killed when the l in a snow squall g the early morn-
Rocky Fork Lake State Park, Highland County	A lir Rocky Trees	810A e of thun Fork Lak	dersto e. Sev	rms mov eral li nes wer	0 ed th ghtni	0 roual	5 Hills	0 boro a starte	High winds, lightning										
Jerry City, Wood County	8 A sma Roofs	646P	0.4 b touc build	50	0	0 ut 8 aged	5 miles and tr	O SE of ees ar	Tornado Bowling Green. d utility										

OCTOBER 1977 NO. OF PERSONS ESTIMATED! TIME - LOCAL STANDARD TIME - LOCAL STANDARD WIDTH OF PATH (YARDS) WIDTH OF PATH (YARDS) CHARACTER CHARACTER ES O LENGTH OF (MILES) PLACE PROPERTY PROPERTY STORM STORM LENGTH (MIL NJURED NJURED 9 XILED DATE CROPS CROPS 를 TENNESSEE continued) PUERTO RICO •4 3:35 P. 16 50-100 0 10 Tornado 3 0 C Heavy Rain Bristol, Sullivan County A tropical wave moving from the east in absociation with an upper level trough that interacted in the vicinity of Puerto Rico produced a succession of rainy days culminating in a number of high intensity showers over eastern portions of the island. The heaviest activity broke out after 5:00 PM on Friday the 7th, with some stations reporting rainfall totals between six and eight inches along the eastern coast. Civil Defense evacuated a number of families from their homes in this area as most eastern rivers went over their basks including the Espirito Santo, Mameyes, Fajardo, Gusyanes and Maumabo. One man drowned near Luquillo when he tried to cross a road obvertun by the Maneyes River. One twelve year old boy was killed near Arecibo when a landslide brought rocks down a hill over his house. An eleven year old boy was drowned when he tried to cross a creek in the vicinity of Mayaguez. Considerable road damage occurred near Yabucoa at the entrance to the town on Highway #3. 4:05 P. The tornado struck in the north-central part of Sullivan County and in the southwest Bristol area (between Bluff Ciry and Bristol). The first touchdown was in the vicinity of Harrtown Road south of Rt. 11W from Indian Springs between 1W and Route 126. The tornado moved into the area around Mighway 17, they beared a little bit south and widening a bit after passing Blomatville. It continued moving along Highway 126 and moved east. The B'dai Sholom Synapogue was damaged when it touched down near the Mount Tucker addition in Blountville. Briefly toaching down again at Big Hollbw Road, south of 126. The tornado then moved toward the Avoca area of town, touching down around 4 p.m., smashing through a restaurant, destroying mobile homes and doing extensive damage to the Bristol Electrical System Building. Final touchdown was at the Brooke Meade subdivision. In a 1, 12 modile homes were heavily damaged or destroyed, 12 hand two churches were partially destroyed. Other commercial buildings and barns were destroyed, and considerable damage to power and telephone lines. The 10 injunes were minor. RHODE ISLAND 0 0 0 Wind Evenina 440 0 1 Bristol Livingston, Overton County 4:30 P. 8 5 Strong Southwest winds blew many boats from th mornings leaving them crashing upon rocks. At least 6 saidboats and 2 powerboats were beache The tornado touched down at three places. The first touchdown was in the Greenbriar Community near Hillam (18 miles north of Gookeville), this sates suffaring the most damage with nine homes destroyed and 27 damaged. The Hillham Church of cod was hit, the whole back side of the building ripped off The storm that took an eastward path touching down again at the Walnit Grove Community just west of Livingston, and then finally at the Hidden Walley subdivision just outside of Livingston where 14 house trailers and one house were destroyed. SOUTH CAROLINA Northwestern 0 0 3 0 Thunderstorm Thunderstorm during the afternoon damaged mobile home near Abbeville. Scattered the sterms also caused other minor damage across High Winds eported minor injury from lying debris. Washburn and Powder Springs Areas, Grainger County 100 Ft. 0 2 4:45 P. 2 5 4 Tornado The cornado took a sig-zagging path across the Washburn Valley, up the ridge between Washburn and fater Valley, then up the Clinch Mountain Ridge and down the other side of the Powder Springs area. Timber was felled all over the valley and acres of forest were stripped from the mountainside. Several homes and cabins were demanded. Several trailer homes and 20 bares containing tobacco were destroyed. P.M. Aiken and McCormic nderstorm Counties. Strong winds associated with thunds caused minor damage to trees and rd High Winds ofs and utilities. Northern Walhalla, Pickens, Green-ville, and Spartan burg Counties, h Flash Flood Night 4 to 7 inches caused flash flood reme northwestern South Cardlina Heavy rains of 4 to ing across extreme during night hours. Dama bridges with a few homes Damage mostly omes flooded. Rickory Valley and Communities, Union County 8:15 P. ሰልል The tornado skipped slong the path. The Rose Hill Primitive Baptist Church was damaged. Nine houses, five barns, and two mobile homes were destroyed. SOUTH DAKOTA NONE REPORTED Laurel Bluff Area, Roane County 12:15 A. 1/4 100 Fc ornado The tornado touched down in the Laurel Bluff area, uprooting and twisting trees in a wooded area hear South Lakes Estates subdivision. It twisted cedar and poglar trees as big as two feet around. A wall of a home under construction was bent. TENNESSEE 8 7 1-2 AM 1st 1 Flash flooding Sullivan, Hawkins Washington, Johnson and Carter Counties Heavy rains in little over 24 hours daused many creeks and streams in the five-county area to overflow their banks. Rainfall amounts of around 5 inches were common. TEXAS NORTHERN in East Tennessee Ploof damage in Sullivan County amounted to 3 million dollars, most of which resulted from flooding of dountout Brisiol stores to a depth of 3 to 4 feet. This was the most serious flooding in 50 years. Damage in downtown Bristol was along State Street between Front and Piedanon Streets, as well as the shops along Moore Street between Cumberland and State Streets. Most damage occurred around 3:30 a.m. Oktober 2, when Reaver Creek that runs through the city overflowed its banks. Fifty businesses and offices were affected in an eight block area of Bristol's central business district. There were 3 road bridges and 1 railroad bridge destroyed in Sullivan County. Terrell, Kaufman 9:00 a 0 0 D Lightning toppled a chimmey on the roof of the Terrell As it collapsed, the chimney did extensive roof. Another chimney was cracked but left lightning bolt. Lightning struct and Intermediate School damage to the school standing by the same 0 31 Lightning Hopkins County Area Several homes and businesses in Hopkins County received minor damage from lightning strikes. Radar indicated very strong thunder storm activity in the area during the late evening of October 31. In Kingsport there was lesser damage to business establishments along Reedy Creek. Johnson County had one drowning when a member of a frescue temm was swept off a bridge while trying to reach feamilies stranded by flood waters near Mountain City and San and 100 families had to be evacuated. Three million collars demage occurred in Johnson County mainly to roads, bridges, and mobile home courts along streams. This includes damage to 50 businesses and offices in dewntown Mountain City. Road Greek in Nountain City crested between 5 A.M. and 6 A.M. on October 2. TEXAS SOUTHERN 5 SE PORT ARANSAS OPEN CULF 0 0 0 0 2 waterspouts 20 7:20a ? Bridges and roads were washed out in the Bulladeen section of Stoney Greek (Carter County). Damage in the remaining dounties was confined to washed out roads and bridges, water and sewage treat-ment plants, thlephone and power plants. persons received injuries, but Eight hospitalized.

	_	r	1		т		1					1	<u>. </u>		1		1		OCTOBER 1977	
		CAL	PATH	Į		. OF SONS	EST IM	ATED† IAGE				CAL	PATH	Ŧ		OF SONS		ATED¹ MGE		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	NJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	
TEXAS (continue	ed)	 			<u>. </u>	<u> </u>		l		VIRGINIA (conti	nued	l)			 					
SOUTHERN		E - 25-				١,				Tidewater and Eastern Shore		All Day			0	0	4	0	Tidal Flooding	
SAN ANYONIO Bexar County	22	5:35a - 7:30a			0	1	3	0	Lightning - hail	pastern butte	Stro	ng onshor t, combin	e wind:	and r	ain, a	ssoci	iated v	ith st	orm moving up the ate low-lying sec-	
	A 1:	ine of thur	nderst inch h	orms mo	ed s	outhe	astwar of sout	d acro	ss Bexar County San Antonio.		cial	ly hard h	it with	n roads	and	homes	flood	led by	View area was espe- tides running more	
	Some	3/4 inch tation was	hail s repo	ell br	lefly Light	, but	only:	minor s triq	damage to pered numerous		per	hour wind	s. One	home s	dffer	ed da	mage i	n exce	s driven by 40-mile ss of \$3,000 from	
	Eng.	ish, was:	struck	by ligh	htnin	g whi	le mak	ing a	n, William delivery to a		a f	mily was	rescue	by th	e Coa	ışt Gu	ard wh	en hig	undation. Elsewhere h waters threatened tern Shore.	
A. P. C.	knoc	ked to the	e grou	escaped nd.	with	oniy	minor	burns	after being	Western Portion .	16	All Day			0	0	0	0	Snow	
VICTORIA Victoria County	22	9:04a			0	0	0	0	High wind										ations stranded	
	Wind	s gusted ther Service	to 52 ce Off	nots i	n a ti Victo	unde ia.	rstorm Some	that ree l	noved across the imbs were blown		сопа								Treacherous road e Drive for a 24~	
	away	, but no i	najor	damage t	was n	eport	ed.			Statewide	25-26	-			0	0	3	0	Rain, Flooding	
MDD V A C											Rair	beginnin	g duri	ng the	night	of t	he 25t	h into	the morning of the	
TEXAS WESTERN			NONE	REPOR	TED						amou	nts over	the so	thern	balf	of th	e stat	e. Arc	with heaviest and six inches of	
											of I	opewell.	Except	for nu	merou	s flo	oded t	asemen	e and in the city ts and streets, minor. School in	
UTAH			NONE	REPOR'	TED						Blac	ksburg ha	₫ to b	evacu	ated	as wa	ter, e	nterin	g through a roof ain was otherwise	
											bene rese	ficial in	helpi	ng to b	ring	long-	needed	relie	f to depleted	
VERMONT												ĺ					_			
AREAWIDE					0	0	3	6	RAIN	Southeastern Portion	28-31	,	riod o	P +18a7	floo		1	0	Wind, High Tides	
	2002	OF NORMAL	PREC	PITATIO	dn, ci	REATE	ÞA SE	VERE L	IN, WHICH AVERAGED OSS TO THE STATE		a 86	rious ero	sion s	ituatio	h in	the 1	irgin:	a Bead	two weeks created h-Norfolk area. sections faced	
	FIEL	DS WERE TO	O WET	TO HARV	VEST :	тне с	kor	LFALF	LOSS BECAUSE A AND POTATOES ALSO SUFFERED AN		the In	task of r	eplaci water	ng prot exposed	ectiv prot	e du ecti	es the	t have	been washed away. ncovered septic	
i	INDI	RECT LOSS	BECAU:	E OF G	REATE	DIF	FICULT	IN O	BTAINING FEED.		tan	ts and und	ėrmine	d suppo	rtine	pil:	ings of	sever	al homes.	
				}																
VIRGINIA				1						VIRGIN ISLAND	s I									
Waynesboro	ŀ	Afternoon			0	0	2		Wind	and St. Croix	7-8			•	0	0	6	0	Heavy Rain	
Danville area	1	6:00 p	ea wit	n thund	ersto	rm b.	lew por		f tree onto auto.		A tro	pical wav ced a mas	e inte s of h	racting eavy ra	with in sh	a co	mplex which	upper drift	level trough ed slowly	
	Wind	uprooted	trees,	result	ing i	n at	least	four a	treets blocked.		the p	ward over period Oct	the n ober 5	erthern -8. Th	e mos	nn la st sev	ere ta	and St ins wh ening	. Croix during ich produced of Friday the 7th	
Washington County	ı	r interrup	tion a	lsc aff	ected		ly 12,		•		and I	asted unt of up to	il ear 8 inc	ly morn hes, St	ing o	of the	8th. eived	St. 1 3 to 5	homas received inches and St.	
washington county	1. Two:	Evening barns in t	he Hol	ston Va	llev	0	#1 n++e		Wind y high winds,		Croix to 16	to the s	outh w ith mo	as hard st stat	est h ions	it wi	th sor	e 24-h rom 10	our totals of up to 14 inches.	
,	doin	g consider	able d	amage t	c sto	red 1	urley	tobacc	o.	i I	lto ro	ads, buil	lings.	houses	and	prope	rty is	side t	ion caused damage he homes. This t the island of	
SW Portion	1-2	[0	0	•7	1	Flood	1	St. (Troix in r	ecent	yeara a	hd in	țitia]	studi	es of	the rainfall he order of two	
	morn to t	ing of the	2nd b	rought	ne ev a tot	ening al of	of the	e lst ch as	and into the early six inches of rain		hundi	ed years.								
	six ton	conths, ra	pidly- The ci	rising ty of B	water risto	s hit l had	Lee,	Wise, reates	six inches of rain second time in Scott and Washing- t flood crest since			,								
:	the :	lood of J ore than \$	uly 19 2 mill	29. In ion, so	Lee (me 20	ounty O per	, wher	e dams ere ev	t flood crest since ge was estimated acuated and over	WASHINGTON			NONE	REPOR	TED					
	esti	nomes and mates plac 5-6 millio	mobile e tota	homes L damag	damag e ove	ed or r the	total state	ly des	troyed. Preliminary uding crop loss,								ļ			
Virginia Beach	αυφ. 2	6:00 p		25	0	0	. 4	0	Tornado	WEST VIRGINIA	A		NONE	REPOR	rED					
	Smal:	, short-1	ived t	ornado:	noved	in a	west-	northy	est to east-south-	1-										
	cente	path thro r sustain	ugn th ed bro	e Kemps ken win	ville dows	area and r	. Seve	ral st mage.	ores in a shopping Elsewhere a farm	WISCONSIN Lake Michigan										
	perpe	ndicular	to the	path o	f the	stor	m. One	witne	eet in a direction as reported seeing nnel sighted a	shore line	7	evening			0	7	5	2	Wind	
	seeir	I in the	vicini Lalof	ty befo: t after	re it	stru	ck and	a pil	ot also reported Estimated total		sho	reline on	the ev	ening o	f the	¢ 7th	The	stron	along the lake winds resulted	
	damaş	e: around	\$20,0	bo.					•		l occ	urred hots	10an 7	D m er	4 114	datah	↓ A+	Kanoel	ost of the damage as in Kenosha	
SW Portion	13	All Day			0	0	0	. 0	Snow		rep	priedly to	ssed o	ver a s	eawa.	ii.	at Two	River:	several others in Manitowoc r breaking loose	
									cumulation over		to	m their mo several bo	orings ats in	Algoma	h sui Hari	or i	n add Kewa	nee Co	o minor damage unty, 30 feet	
		Blue Ridge					.ueces	∍⊥æt1	ng the closing of		sur	F. At Por	t Wash	ington	in O:	auke	Coun	ty, the	ing by high marine damage 4 sailboats with	
											tot the	1 destruc \$40,000 c	tion c lass.	ccurrin Total	g to damag	6 oti	ers. sailb	These	boats were in Port Washington	
											was	estimated Washingt	betwe	en \$100	,000	and	\$200,	00. 1	arbor piers at	
													1							
	ĺ								. I		1									

		CAL	PATH	E		OF		ATED†				CAL	H A	£		OF SONS		ATED [†] AGE	OCTOBER 19
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER DF STORM
WYOMING	L			REPOR	TED		 	1			<u> </u>			L					
	The the ing bank life strong west volt bord in I strong wine the	early meresulter ful in Early Morning is winds iral and ng winds of Ill power en Chemica con Coing wind is began northwe	during East sans to the during East sans to the during to the during East sans to the during the du	thuncentrice the countrice the	dersidera	orma line den in Co ice iant ole d duri	ber i eams 5 hit is equitive in I i amage in choice of the control of the contro	scati rly in ty po puti king liopo was heavy the	Heavy Rains, Flash Flooding O continued into or flash flood- to just above Wind, Lightning ered areas of n the morning, wer poles just ing a 138,000 out power to the lis. At Forsyth caused by a reinstorm, The demage was on resulted, A man					-					
	and and grading ed : hitti line syth and small report repo	His facution in a control of the school and over and felling util company, a cem storage hed. All way 20 h of De rted he mson, Chigh wire a limbs sed a pool	m wa. dings and ings and had rhangi lity ont so sed catury raw raw wer ver	were were a dog windo torn le sch lines lock to the con U. damage tocked enappe	hsive hit were we off in a store	ly of reproduction of the later	amage corrections ing ing ank de trae was imit Macor story high	d. Seed by kill of dar the transfer of the buck. Strong a garden of the transfer of the transf	d faciel injur- weral farm homes the high winds ed. The Forey sehool collaps south side, Phillips Pipe- ed. Also in For- ed and a garage to Company was age on County the Boody area, ty, trees were nning hours. In at about 3100am, as trees and Lightning when a power of Oblong.					-					
								Appril 4 mark to the transfer of the transfer											
																		j	

- 8 -

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)		INJURED SKIP	PROPERTY	ATED¹ AGE	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)		OF SONS	PROPERTY	ATED1 AGE	CHARACTER OF STORM
		l					AR	<u> </u>	ATE REPORT	rs, correction	i	L	DE	<u> </u>		 S: 			
LATE REPORATIONA Tempe Maricopa County Tucson Fima County	9 Wind tall util 10 A se	11:00 p. Is gusting power li lity prope Late Aft	to 55 ne polety.	s and with	durin ires 0	o 0	saused 5 nin of	storm \$100, 0	Wind downed thirteen dod damage to Flooding y two inches	CORRECTIO OKLAHOMA OKLAHOMA Near Frederick Tillman County	17	11:30p		EMBER	0	0	4	5	Hail
MAINE NEW HAMPSHI	set and	med into vehicles power lin	sfloat fire SEPT NONE	flood	1977 TED	ises (lout	sections	ns of streets,	O Includes cro C Crop damage. * Miles instee ** Yards instee f Storm damage l Less tha 2 \$50 to \$ 3 \$500 to \$ 4 \$5,000 to 5 \$50,000	d of d of s are n \$50 55,00 \$5,00	yards. miles. e placed in	n cate	gories	varyí	ng fr	om 1 t	o 9 as	follows:
NEW JERSEY Riverside, Burlington Co.	6 Ligh	p.m.	ed on	EMBER youth	and:	4 injur	0 ed 4 o	0 thers	Lightning while riding	6 \$500,000 7 \$5 Mill; 8 \$50 Mill 9 \$500 Mil	to t	\$5 Million \$50 Mill to \$500 Mi to \$5 Bil contains	ion llion lion our be	st info	ormati	.on. on	storu	ıs but,	due
Jobstonn, Burlington Co.	21 Li	12 a	a vac	ent fie	1d. 0	0	5	0	Lightning	to the difficulties all-inclusive. Las following receipt of SUBSCRIPTION PRICE 30c single copy.	inh e Re of th \$3	erent in c ports and ese data. .60 a year checks pay	ollect Correc ; \$4.8 able t	ion of tions w O addit o Depar	the t	ype of car	f data ried d foreig	n the n the n mail e, NOA	s not month ing; A;
New Brunswick, Somerset Co.		3.05 p crnado tou and abou n over an							Tornado of about 6 miles rch steeple was	send payments and of Asheville, NC 2880	order 01	Attn: Pub	licati	Climati ons.					
NEW YORK COASTAL Montrose Westchester Co.	26 A t	4.15 p prnado to Jeterans R	2	EMBER 20 do n bri	0	0	4 sing d	O mage e upr	Tornado to windows of octed.										
WYOMING Niobrara County	21 Tor	9:45 p.	?	EMBER ? an over	٥	0	0 land l	O 6 mile	Tornado s north of Lusk.		•								·

U.S. DEPARTMENT OF COMMERCE NATIONAL CLIMATIC CENTER FEDERAL BUILDING ASHEVILLE, N.C. (2880) POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
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